

Sequence ID No. / ID	NCBI Entrez Database	Name	Abbreviation
1. Coding sequence	XM_031289	Interleukin 8	IL8
2. Coding sequence	XM_051900	Prostaglandin-endoperoxide synthase 2	PTGS2
3. Coding sequence	M94582	Interleukin 8 receptor B	ILR8RB
4. Coding sequence	NM_005555	Lipocalin 2	LCN2
5. Coding sequence	NM_000331	Serum amyloid A1	SAA1
6. Coding sequence	NM_000757	Macrophage colony stimulating factor 1	CSF1 (MCSF1)
7. Coding sequence	X54489	Melanoma growth stimulatory activity	MGSA
8. Coding sequence	NM_002090	Chemokine (C-X-C motif) ligand 3	CXCL3
9. Coding sequence	XM_032429	Secreted phosphoprotein 1	SPP1 (OPN)
10. Coding sequence	M64349	Cyclin D	CCND1
11. Coding sequence	AX057136	c-Myc	c-Myc
12. Coding sequence	L25610	Cyclin-dependent kinase inhibitor	HUMCDK1
13. Coding sequence	BC021998	Cyclin-dependent kinase inhibitor 2A	CDKN2A
14. Coding sequence	NM_058195	Alternative reading frame p14	CDKN2A
15. Coding sequence	NM_005036	Peroxisome proliferative activated receptor, alpha	PPARA
16. Coding sequence	XM_003059	Peroxisome proliferative activated receptor, gamma	PPARG
17. Coding sequence	NM_006238	Peroxisome proliferative activated receptor, delta	PPARD
18. Coding sequence	XM_030326	CD44 antigen	CD44
19. Coding sequence	XM_044882	Prostaglandin-endoperoxide synthase 1	PTGS1
20. Coding sequence	NM_002131	High-mobility group AT-hook1 isoform B	HMGAI
21. Coding sequence	X54942	CKSHS2	CKSHS2
22. Coding sequence	U22055	100 kDa coactivator	p100 coactivator
23. Protein	XP_031289	Interleukin 8	IL8
24. Protein	XP_051900	Prostaglandin-endoperoxide synthase 2	COX2
25. Protein	AAA36108	Interleukin 8 receptor B	CXCR2
26. Protein	NP_005555	Lipocalin 2	LCN2
27. Protein	NP_000331	Serum amyloid A1	SAA1
28. Protein	NP_000757	Macrophage colony stimulating factor 1	MCSF1
29. Protein	CAA38361	Melanoma growth stimulatory activity	Groα
30. Protein	NM-002090	Chemokine (C-X-C motif) ligand 3	Groy

Fig. 1

Sequence ID No. / ID	NCBI Entrez Database	Name	Abbreviation
31. Protein	XP_032429	Osteopontin	OPN
32. Protein	AAA52136	Cyclin D	cyclin D1
33. Protein	CAC22425	c-Myc	c-Myc
34. Protein	AAA16109	Cyclin-dependent kinase inhibitor	p21
35. Protein	AAH21998	Cyclin-dependent kinase inhibitor 2A	p16
36. Protein	NP_047862	Alternative reading frame p14	p14ARF
37. Protein	NP_005027	Peroxisome proliferative activated receptor, alpha	PPAR $\alpha$
38. Protein	XP_003059	Peroxisome proliferative activated receptor, gamma	PPAR $\gamma$
39. Protein	NP_006229	Peroxisome proliferative activated receptor, delta	PPAR $\delta$
40. Protein	XP_030326	CD44 antigen	CD44
41. Protein	XP_044882	Prostaglandin-endoperoxide synthase 1	COX1
42. Protein	NP_002122	High-mobility group AT-hook1 isoform B	HYGYI
43. Protein	CAA38703	CKS1 protein homolog	CKS1
44. Protein	AAA80488	100 kDa coactivator	p100 coactivator
45. Forward primer		Interleukin 8	IL8
46. Reverse primer			
47. Forward primer		Prostaglandin-endoperoxide synthase 2	PTGS2
48. Reverse primer			
49. Forward primer		Interleukin 8 receptor B	ILR8RB
50. Reverse primer			
51. Forward primer		Lipocalin 2	LCN2
52. Reverse primer			
53. Forward primer		Serum amyloid A1	SAA1
54. Reverse primer			
55. Forward primer		Macrophage colony stimulating factor 1	CSF1 (MCSF1)
56. Reverse primer			
57. Forward primer		Melanoma growth stimulatory activity	MGSA
58. Reverse primer			
59. Forward primer		Chemokine (C-X-C motif) ligand 3	MGSA
60. Reverse primer			

Fig. 1

Sequence ID No. / ID	NCBI Entrez Database	Name	Abbreviation
61. Forward primer		Secreted phosphoprotein 1	SPP1 (OPN)
62. Reverse primer			
63. Forward primer		Cyclin D	CCND1
64. Reverse primer			
65. Forward primer		c-Myc	c-Myc
66. Reverse primer			
67. Forward primer		Cyclin-dependent kinase inhibitor	HUMCDK1
68. Reverse primer			
69. Forward primer		Cyclin-dependent kinase inhibitor 2A	CDKN2A
70. Reverse primer			
71. Forward primer		Alternative reading frame p14	CDKN2A
72. Reverse primer			
73. Forward primer		Peroxisome proliferative activated receptor, alpha	PPAR $\alpha$
74. Reverse primer			
75. Forward primer		Peroxisome proliferative activated receptor, gamma	PPAR $\gamma$
76. Reverse primer			
77. Forward primer		Peroxisome proliferative activated receptor, delta	PPAR $\delta$
78. Reverse primer			
79. Forward primer		CD44 antigen	CD44
80. Reverse primer			
81. Forward primer		Prostaglandin-endoperoxide synthase 1	COX1
82. Reverse primer			
83. Forward primer		High-mobility group AT-hook1 isoform B	HMGY1
84. Reverse primer			
85. Forward primer		CKS1 protein homolog	CKS1
86. Reverse primer			
87. Forward primer		100 kDa coactivator	p100 coactivator
88. Reverse primer			

Fig. 1

Relative Gene Expression Levels in Colon Polyps (Average  $\pm$  SE)

No.	Genes	Wild-Type Littermate	Individual Poly	P Value
1	SDF-1	1.23 $\pm$ 0.34	11.02 $\pm$ 2.45	0.003
2	COX2	1.41 $\pm$ 0.25	87.48 $\pm$ 16.50	<0.001
3	CXCR2	1.41 $\pm$ 0.35	11221 $\pm$ 23.76	<0.001
4	OPN	1.62 $\pm$ 0.60	463.37 $\pm$ 130.49	0.004
5	MCSFI	1.05 $\pm$ 0.15	4.26 $\pm$ 1.60	0.08
6	PPAR $\delta$	1.16 $\pm$ 0.27	0.44 $\pm$ 0.05	0.04

FIG. 2A

Relative Gene Expressions in Normal-Appearing Mucosa from Colon Cancer										
	Sigmoid and Rectum						Ascending Colon			
	NB	H002	H004	H006	H008	H011	NB	H003	H009	H010
IL-8	1.80 $\pm$ 0.26	28.91	7.14	6.88	18.35	24.67	1.72 $\pm$ 0.35	16.03	4.90	28.26
COX2	1.85 $\pm$ 0.29	13.54	10.34	18.23	14.63	1.87	1.74 $\pm$ 0.45	25.48	11.98	33.06
CXCR2	1.31 $\pm$ 0.14	11.35	6.82	6.85	7.18	100.20	1.26 $\pm$ 0.17	10.23	22.62	11.20
OPN	2.11 $\pm$ 0.52	10.85	9.84	11.88	21.29	3.41	1.43 $\pm$ 0.20	26.83	23.97	64.13
MCSF1	1.69 $\pm$ 0.19	4.49	11.88	12.84	7.24	7.98	1.57 $\pm$ 0.22	12.40	17.89	14.97
PPAR- $\delta$	1.14 $\pm$ 0.07	0.10	0.09	0.12	1.28	0.96	1.16 $\pm$ 0.11	0.09	1.10	0.30

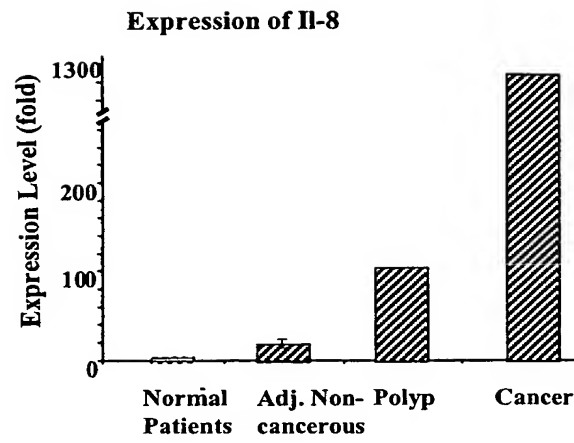
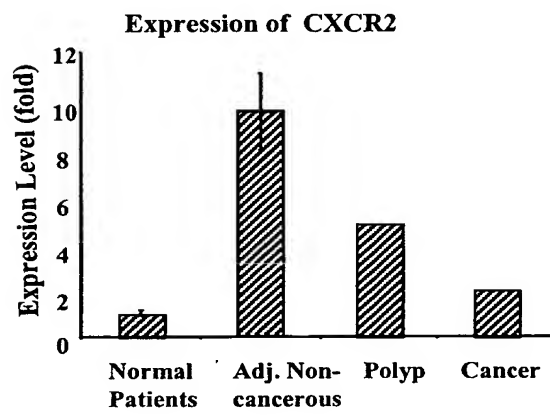
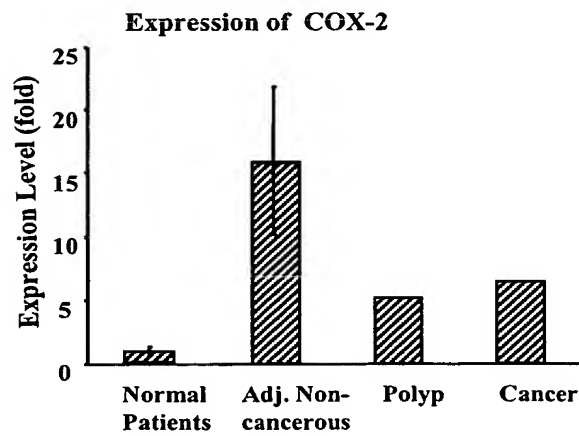
FIG. 2B

*Dependent Variable:* Il-8, M-CSF-1, COX-2, OPN, p21, PPAR- $\gamma$ , CXCR2, CD44, PPAR- $\delta$

*Results for Multivariate Analysis: Wilks Lambda Criterion*

Source	Lambda	probability
Cancer	0.989	0.0086

FIG. 2C

**Fig. 3A****Fig. 3B****Fig. 3C**

IL-8

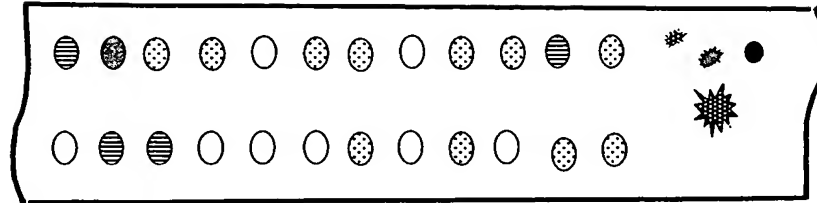
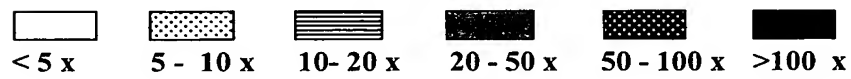


Fig. 4A



53 cm

COX2

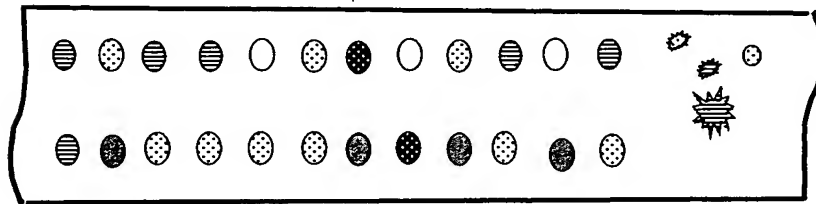


Fig. 4B



53 cm

CXCR2

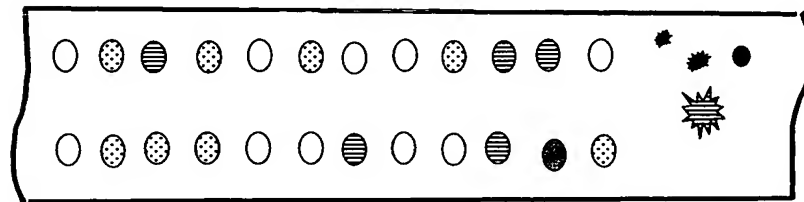


Fig. 4C



53 cm